

AT-8000S/16 Layer 2 Managed Fast Ethernet Switch

AT-8000S/16

16 port standalone 10/100TX Layer 2 switch with I active SFP bay (unpopulated) and I standby 10/100/1000T port (RJ-45)

Overview

The small form factor AT-8000S/16 provides line-rate Layer 2 switching in an affordable, fixed-configuration platform. Featuring easy installation and exceptional reliability, this 10/100 switch comes with one Gigabit uplink port with the option of the integrated copper 10/100/1000 port or a 100 or 1000 SFP slot for fiber connectivity.

Ideal Workgroup and Remote Office Connectivity

Designed for the smaller workgroup or remote office this highly featured switch mirrors the advanced feature set of the larger 8000S series stackable products while offering the benefits of silent operation and a port density aimed at right priced functionality.

Easy Access Networking

Featuring an industry standard CLI and Allied Telesis' intuitive yet fully featured Web interface the advanced features of the AT-8000S/16 are accessible to a wide range of system administrators. The well known CLI and Web interfaces significantly reduce learning time and minimize the cost of deployment.

Secure Management

Only authorized administrators can access the management interface of the 8000S series. Protocols such as SSL, SSH and SNMP v3 facilitate this protection of your network with local or remote connections.

Securing the Network Edge

To ensure the protection of your data, it is important to control access to your network. Protocols such as IEEE 802.1 x port-based authentication guarantee that only known users are connected to the network. Unknown users who physically connect can be isolated to a pre-determined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network data.

Gigabit and Fast Ethernet SFP Support

All switches in the 8000S family support both Gigabit and Fast Ethernet Small Form-factor Pluggables (SFPs). This makes the 8000S series an ideal family for environments where Gigabit fiber switches will be phased in over time. The 8000S family allows for connectivity to the legacy 100FX hardware until it is upgraded to Gigabit. Support for both speeds of SFPs allows organizations to stay within budget as they migrate to faster technologies.

Key Features

Easy, Well Known Management

- Industry standard CLI
- Simple intuitive, full featured Allied Telesis Web interface
- $\,$ Secure encrypted Web and CLI management with SSH v2 and SSL
- SNMP
- Two level access privileges

All the QoS Needed in the Wiring Closet for Today's Voice and Data Networking

- Eight priorities assigned to four queues
- IEEE 802.1p for Layer 2 QoS
- DSCP (DiffServ) for Layer 3 QoS
- IEEE 802.1 p to DSCP remarking traffic ready for transport to the Layer 3 core of the network
- Layer 2 and Layer 3 ACL

Securing the Network at its Most Vulnerable Point

- IEEE 802.1× and RADIUS network login: for advanced control of user authentication and accountability
- Guest VLAN: to ensure visitors or unauthorized users connect only to services defined by IT. E.g. Internet
- TACACS+: for ease of management security administration
- Layer 2 and Layer 3 ACL
- Port MAC address security options

Small Form Factor

- Standalone switch for remote locations or where stacking is not required
- Silent operation (fanless)

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System Configuration

Dimensions	33cm x 23cm x 4.3cm
(WxDxH)	(13" x 9.1" x 1.7")
Weight	1.95kg (4.29lb)
Mounting	19" rack-mountable hardware
	included

System Capacity

64MB RAM 16MB flash memory 400Mhz CPU Up to 4,096 VLAN ID 8,000 MAC address

Performance **

Wittensood switching on all	Ethornot north for all nocket
	Ethernet ports for all packet
SIZES	
Throughput	3.87Mpps
Switching capacity	5.2Gbps
017	•
MTBF	447.901.90 hours
Channel Commentered	
Store and forward mode	
Non-blocking switch fabric	

Auto MDI/MDI-X

Port speed:

10/100TX	RJ-45
10/100/1000T	RJ-45
100FX, 1000SX, 1000LX	SFP slot
RS232	DB9 pin, male port
Internal power supply — no f	an

Interface Standards

IEEE 802.3	IOT and IOFL
IEEE 802.3u	100TX and 100FX
IEEE 802.3z	1000SX
IEEE 802.3ab	1000T

General Standards

IEEE 802.1D	Bridging			
IEEE 802.3x	BackPressure/	flow	control	

Redundancy Standards

IEEE 802.1D	Spanning-Tree Protocol
IEEE 802.1W	Rapid Spanning-Tree
IEEE 802.1s	Multiple Spanning-Tree
IEEE 802.3ad	LACP link aggregation
	(with up to eight members per
	group and up to eight groups per
	device)
Static port trunk	,

Quality of Services (QoS)

QoS in Layer 2 (IEEE 802.1p compliant Class of Service) Traffic prioritization using IEEE 802.1p, ToS, DSCP fields Map IEEE 802.1p priorities to CoS queues to prioritize traffic at egress Strict Scheduling and Weighted Round Robin

VLANs

IEEE 802.1Q VLAN tagging Up to 256 VLANs Port-based VLANs MAC-based VLANs Private VLANs GARP VLAN Registration Protocol (GVRP)

Multicast Standards

RFC 1112	IGMP snooping (ver. I)
RFC 2236	IGMP snooping (ver. 2)
RFC 3376	IGMP snooping (ver. 3)*
RFC 3376	IGMP querier

* Future release

Management and Monitoring ~ ١

	WEB, CLI, Serial	
I	RFC 1157	SNMPv1/v2c
I	RFC 2570	SNMPv3
I	RFC 1213	MIB-II
I	RFC 1573	Evolution of MIB-II
I	RFC 1215	TRAP MIB
I	RFC 1493	Bridge MIB
I	RFC 2863	Interfaces group MIB
I	RFC 1643	Ethernet like MIB
I	RFC 1757	RMON 4 groups:
		Stats, History, Alarms, Events
I	RFC 2674	IEEE 802.1Q MIB
I	RFC 1866	HTML
I	RFC 2068	HTTP
I	RFC 854	Telnet
I	RFC 783	TFTP

IP address allocation RFC 951/ RFC 1542 BootP / DHCP Manual

RFC 2030 SNTP (Simple Network Time Protocol) Syslog event Dual software images

Security

Management Security: user name		
and password p	rotection	
SSHv2	Telnet management	
SSLv3	Web management	
RFC 1492	TACACS+	
RFC 2138	RADIUS Authentication	
IEEE 802.1x	Port-based network access control	
Guest VLANs		
RFC 2865	IEEE 802.1x port-based network	
	access control	
MAC-based network access control		
ACL - Access Control Lists		

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Fault Protection

Broadcast storm control

Power Characteristics

Voltage input	100-240V AC
Voltage output	I 2vDC
Current	0.75A
Power consumption	30W
Heat dissipation	102.45BTU/hour
Clock frequency	I 66MHz

Environmental Specifications

Operating temp	0°C to 45°C (32°F to 113°F)
Storage temp	-25°C to 70°C (-13°F to 158°F)
Relative humidity	10% to 90% non-condensing
Storage humidity	5% to 95% non-condensing
Operating altitude	Maximum 3,000m (9,843ft)

Electrical/ Mechanical Approvals

Safety UL 1950 (UL/cUL), EN60950 (TUV) EMI FCC Class A, EN55022 Class A, VCCI Class A, C-Tick, EN61000-3-2, EN61000-3-3 Immunity EN55024 RoHS compliant

Package Description

One AT-80005/16 switch Power cord AC Rack-mount kit Rubber feet for desktop installation RS232 management cable Install guide and user guide in CD

Country of Origin China

Ordering Information

AT-8000S/16-xx

16 port standalone 10/100TX Layer 2 switch with I active SFP bay (unpopulated) and I standby 10/100/1000T port (R]-45)

Where xx = 10 for US power cord 20 for no power cord 30 for UK power cord 40 for Australian power cord 50 for European0 power cord

Accessories

Small Form Pluggables (SFPs)

AT-SPFX/2 Multi-mode Fiber, 2km, 100FX, SFP, 1310nm

AT-SPFX/15 Single-mode Fiber, 15km, 100FX, SFP, 1310nm

AT-SPFX/40 Single-mode Fiber, 40km, 100FX, SFP, 1310nm

AT-SPTX Copper, GbE Small Form-factor Pluggable (SFP)

AT-SPSX Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP) 850nm

AT-SPLX10 Single-mode Fiber, 10km, GbE SFP, 1310nm

AT-SPLX40 Single-mode Fiber, 40km, GbE SFP, 1310nm

AT-SPLX40/1550 Single-mode Fiber, 40km, GbE SFP, 1550nm

AT-SPZX80 Single-mode Fiber, 80km, GbE SFP, 1550nm

AT-SPZX80/xxxx Single-mode Fiber, CWDM, 80km GbE SFP

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